

XIII NOST-Organic Chemistry Conference (NOST-OCC)

Venue: Majorda Beach Resort, Goa

(May 01 – 04, 2009)

May 01, 2007 (Friday)

3:15 – 3:45 HIGH TEA
3:45 – 3:55 PM Introductory Remarks (Goverdhan Mehta/Vinod Singh)

PANACEA BIOTEC SESSION

SESSION 1 Chairperson: **Dr. K. Nagarajan** (Hikal Ltd., Bangalore)
(4:00 – 6:00 PM)

4:00 – 4:30 Steven V. Ley (Cambridge, UK)
New Tools for Molecule Makers

4:30 – 5:00 Vijay Nair (Trivandrum)
Novel C-C and C-Heteroatom Bond-forming Reactions Involving Homo-enolates Generated by NHC Catalysis

5:00 – 5:30 Janine Cossy (Paris, France)
Chemoselectivity. Synthesis of Biologically Active Heterocyclic Compounds

5:30 – 6:00 Faiz A. Khan (Kanpur)
A Second-Generation Synthesis of Cyclopentanoids and Substituted Aromatics

6:00 – 6:25 PM REFRESHMENTS

JUBILANT ORGANOSYS SESSION

SESSION 2 Chairperson: **Professor G.S.R. Subba Rao** (Bangalore)
(6:30 – 8:00 PM)

6:30 – 7:00 Lutz F. Tietze (Göttingen, Germany)
Development of Novel Selective Anticancer Agents

7:00 – 7:30 Simeon Arseniyadis (Yvette, France)
The Domino Approach as Problem Solving Tool in Biologically Active Natural Product Synthesis

7:30 – 8:00 J. N. Moorthy (Kanpur)
Sterically-Engineered Rigid Molecular Modules for Lattice Inclusion Cornucopia and Organic Functional Materials

8:00 PM MIXER & DINNER

May 02, 2009 (Saturday)

BASF Session

SESSION 3
(8:30 – 10:30 AM)

Chairperson: Professor S. Chandrasekaran (IISc Bangalore)

8:30 – 9:00

S. Ranganathan (Hyderabad)
The Rice Plant: Exploration of Pathways in Silica Solubilization and Biotransformation

9:00 - 9:30

Martin G. Banwell (Canberra, Australia)
Enhancing Biotransformations Through Chemical Synthesis

9:30 – 10:00

Santanu Bhattacharya (Bangalore)
Targeting DNA in a Secondary Structure-Specific Fashion

10:00 – 10:30

Gurunath Ramanathan (Kanpur)
Modelling the Green Fluorescence Protein Luminophore

10:30 – 10:55 AM

REFRESHMENTS

ELI LILLY SESSION

SESSION 4
(11:00 – 1:30 PM)

Chairperson: Dr. Ganesh Pandey (NCL Pune)

11:00 – 11:30

E. Peter Kündig (Geneva, Switzerland)
Asymmetric Pd Catalyzed- and Oxidative- Intramolecular Arylation of Amides

11:30 – 12:00

Yujiro Hayashi (Tokyo, Japan)
Asymmetric Aldol Reaction in the Presence of Water and the Generation of Chirality in this Universe

12:00 – 12:30

Raghavan B. Sunoj (Mumbai)
Microsolvated Transition State Models and The Story of Co-Catalysts in Organocatalytic Reactions

12:30 – 1:00

Nicholas C. O. Tomkinson (Cardiff, UK)
Iminium ion Catalysis: Tools and Observations

01:00 – 1:30

Nakcheol Jeong (Seoul, Korea)
Enantioselective Pauson-Khand Type Reaction by Rhodium Catalysts

1:30 PM

LUNCH

3:30 – 3:55

REFRESHMENTS

FLASH PRESENTATIONS

SESSION 5
(4:00 – 5:00 PM)

Chairperson: Professor D. Basavaiah (Univ. of Hyderabad)

G. Mehta (Bangalore)
Total Synthesis of Bioactive Natural Products Frondosins and Liphagal

M. Periasamy (Hyderabad)
Molecules, Methods and Devices for Energy Applications

Tushar K. Chakraborty (Lucknow)
Epoxide Opening with Ti(III): From Methodology to the Synthesis of Natural Products

Gautam Panda (Lucknow)
 β -Hydroxy- α -tosyloxy Esters as Chiral Building Blocks for the Enantioselective Synthesis of Benzo-annulated Oxa-heterocycles: Formation of 1-Benzofuran, 1-Benzopyran and 1-Benzoxepine Derivatives by Phenoxide Ion-mediated Carbocyclization

R. V. Venkateswaran (Kolkata)
Remarkable Epi- to Natural Isomerisation in the Alboatrins

O.P. Oomen (Bombay)
Morita-Baylis-Hillman Reaction of Iminium Salts & Development of Cage Derived Chiral Ligands for Asymmetric Reaction

SESSION 6
(5:00 – 6:30 PM)

Chairperson: Dr. Martin Swarbrick (Cancer Research Technology Ltd, Cambridge, UK)

5:00 – 5:30 Chuan (Joe) Shih (Indianapolis, USA)
Meeting the Challenges of Drug Discovery, A Knowledge-Based, Integrated Approach for Oncology Kinase Drug Discovery at Eli Lilly

5:30 – 6:00 Raffaele Riccio (Fisciano (SA), Italy)
Chemistry and Biology of New Potential HDAC Inhibitors Useful in Cancer Therapy

6:00 – 6:30 Deepak Lala (Washington, USA)
A New Paradigm for Drug Discovery

6:30 – 6:50 REFRESHMENTS

Evening Talk **Chairman: Sri Mosur** (Jubilant Biosys Ltd., Bangalore)

(6:50 – 7:30 PM) Alan D. Palkowitz (Lilly, USA)
Drug Discovery on a Sea Stormy Sea: Setting a Course for Innovation

7:30 PM GOAN CARNIVAL & DINNER

May 03, 2009 (Sunday)

SESSION 7 (8:30 – 10:30 AM)	Chairperson: Professor Uday Maitra (IISc Bangalore)
8:30 – 9:00	V. Gouverneur (Oxford, UK) <i>Advances in ¹⁹F and ¹⁸F Chemistry</i>
9:00 – 9:30	David O'Hagan (St. Andrews, UK) <i>The Synthesis and Properties of Alkanes with Contiguous Fluorine Atoms</i>
9:30 – 10:00	Amitabha Sarkar (Kolkata) <i>Organometallic Strategies for Decorating Surfaces with Functional Self-assembled Monolayers</i>
10:00 – 10:30	K. P. Kaliappan (Mumbai) <i>Synthetic Studies on Platensimycin, Palmerolide A and C-Aryl Glycosides</i>
10:30 – 10:55	REFRESHMENTS
SESSION 8 (11:00 – 1:30 PM)	Chairperson: Dr. Sanjay Trehan (Panacea Biotec)
11:00 – 11:30	S. C. Roy (Jadavpur) <i>Titanocene(III) Mediated Radicals in Organic Synthesis</i>
11:30 – 12:00	N. Jayaraman (Bangalore) <i>Synthetic Septanoses and Septanosides</i>
12:00 – 12:30	S. Hotha (Pune) <i>Alkyl Glycosides as Glycosyl Donors in Oligosaccharide Synthesis</i>
12:30 – 01:00	Parthasarathi Das (Hyderabad) <i>Microtubule-stabilizing Agents: Synthetic Studies on Dictyostatin and Rhizoxin D</i>
01:00 – 01:30	Isao Shimizu (Tokyo, Japan) <i>Synthesis of Biomolecular ¹³C-Isotopologues</i>
1:30 PM	LUNCH
3:00 – 7:00 PM	CITY TOURS (courtesy: NOST)
Evening Talk (7:20 – 8:00 PM)	Chairman: Professor E. Peter Kündig (Geneva, Switzerland) Henning Hopf (Braunschweig, Germany) <i>Can Invention be Invented?</i>
8:00 -10:00 PM	DINNER

May 04, 2009 (Monday)

Session 9
(8:30 – 11:00 AM)

Chairperson: Dr. Wolf-Rüdiger Krahnert (BASF, India)

8:30 – 9:00

T. Pathak (Kharagpur)
Heterocycles and Carbocycles from Vinyl Sulfone-Modified Carbohydrates

9:00 – 9:30

Ian Fairlamb (York, UK)
Catalytic C-H Functionalisation of Purines and Related Compounds

9:30 – 10:00

D. Ramachary (Hyderabad)
Development of Push-Pull Dienamine Chemistry: Sustainable Approach to the Aromatics

10:00 – 10:30

Robert Stockman (Nottingham, UK)
Combining Two-Directional Synthesis and Tandem Reactions for Natural Product Synthesis

10:30 – 11:00

Indrapal Singh Aidhen (Chennai)
New Weinreb Amide Based Building Blocks for the Synthesis of Biologically Important Molecules

11:00 – 11.25

REFRESHMENTS

FLASH PRESENTATION

Session 11
(11:30 – 12:30)

Chairman: Professor Amit Basak (IIT Kharagpur)

Vishwakarma Singh (Mumbai)
Saligenin to Platencin

T. K. Sarkar (Kharagpur)
 $PdCl_2(PPh_3)_2/AuCl(PPh_3)$: A New Catalytic System for Efficient Sonogashira-Type Cross-Coupling Reactions

Subodh Kumar (Amritsar)
Chemical Arithmetic Using o-Hydroxyarylbenzimidazoles

Shrutisagar D. Haveli (Bangalore)
Studies of NIS Mediated Cyclopropane Ring Opening Reactions in Carbohydrate Chemistry

Nishant R. Gupta (Pune)
Stereoselective One Step Construction of Vicinal Quaternary and Tertiary Stereocenters of 5, 10b-Ethanophenanthridine Skeleton. Total Synthesis of (\pm)-Maritidine

Perumal Rajakumar (Chennai)
Role of Organic Nanomolecules in Biology and Electronics

12:30 – 12:40

Concluding Remarks

12:45 PM

LUNCH followed by departure.